

WHAT IS CLAIMED IS:

1. A method of symmetric multiprocessing in which one or more processors, a first memory medium storing a micro kernel operating system in a machine executable form and a second memory storing a thread scheduler in a machine executable form are interconnected via a communication network, said method comprising the steps within said thread scheduler of:  
responding to a thread requiring a call to said micro kernel operating system by requesting a global lock;  
responding to said global lock being available by performing the steps of:  
acquiring said global lock from said thread scheduler;  
performing said call to said micro kernel operating system; and  
releasing said global lock.
2. A method of symmetric multiprocessing as claimed in claim 1, wherein said micro kernel operating system comprises a pre-emptable micro kernel operating system, said method further comprising the steps with said thread scheduler of:  
pre-empting any non-critical threads currently executing on said pre-emptable micro kernel operating system prior to said step of executing said thread on said pre-emptable micro kernel operating system; and  
reinstating said pre-empted threads following said step of executing said thread on said pre-emptable micro kernel operating system.
3. A method of symmetric multiprocessing as claimed in claim 2 wherein said step of performing said call to said micro kernel operating system comprises the steps of:  
entering said pre-emptable micro kernel operating system;  
executing operating system functions as required by said thread;  
locking said pre-emptable micro kernel operating system; and  
exiting said pre-emptable micro kernel operating system.

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